

Title (en)  
PREDICTIVE FOCUS TRACKING APPARATUS AND METHODS

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR PRÄDIKTIVEN FOKUSVERFOLGUNG

Title (fr)  
APPAREIL ET PROCÉDÉS DE SUIVI PRÉDICTIF DE MISE AU POINT

Publication  
**EP 3566088 C0 20240131 (EN)**

Application  
**EP 17890176 A 20171222**

Priority

- US 201762442947 P 20170105
- GB 201704770 A 20170324
- IB 2017058383 W 20171222

Abstract (en)  
[origin: US2018188514A1] An imaging system may include a sample stage comprising a surface to support a sample container, the sample container having a plurality of sample locations; an optical stage having an objective lens, the optical stage being positionable relative to the sample stage to image samples at the sample locations; an actuator physically coupled to at least one of the sample stage and the optical stage to move the sample stage relative to the optical stage to focus the optical stage onto a current sample location; and a drive circuit to determine a focus setting for a next sample location and to provide a drive signal to the actuator before the optical stage is positioned to image a sample at the next sample location, wherein at least one parameter of the drive signal is determined using a difference between a focus setting for the current sample location and the determined focus setting for the next sample location.

IPC 8 full level  
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AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

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**US 11054624 B2 20210706; US 2018188514 A1 20180705;** AU 2017390821 A1 20181122; AU 2017390821 B2 20211028;  
BR 112018076996 A2 20190402; BR 112018076996 B1 20220222; CA 3022894 A1 20180712; CA 3022894 C 20201027;  
CN 109313329 A 20190205; CN 109313329 B 20211109; EP 3566088 A1 20191113; EP 3566088 A4 20200812; EP 3566088 B1 20240131;  
EP 3566088 C0 20240131; GB 201704770 D0 20170510; IL 262707 A 20181231; IL 262707 B1 20230501; IL 262707 B2 20230901;  
IL 301850 A 20230601; JP 2020505625 A 20200220; JP 7050701 B2 20220408; KR 102551459 B1 20230704; KR 20190095110 A 20190814;  
MX 2019007874 A 20191105; MY 195238 A 20230111; NZ 747882 A 20210226; RU 2710004 C1 20191223; SA 518400567 B1 20220320;  
SG 11201811328P A 20190130; TW 201841020 A 20181116; TW I772348 B 20220801; US 11977213 B2 20240507;  
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**US 201715852699 A 20171222;** AU 2017390821 A 20171222; BR 112018076996 A 20171222; CA 3022894 A 20171222;  
CN 201780038518 A 20171222; EP 17890176 A 20171222; GB 201704770 A 20170324; IB 2017058383 W 20171222;  
IL 26270718 A 20181031; IL 30185023 A 20230330; JP 2018566866 A 20171222; KR 20187036993 A 20171222; MX 2019007874 A 20171222;  
MY PI2018002639 A 20171222; NZ 74788217 A 20171222; RU 2018144994 A 20171222; SA 518400567 A 20181202;  
SG 11201811328P A 20171222; TW 106145727 A 20171226; US 202117339587 A 20210604